HEALTH ANALYSIS

Health Analysis 101 Brief

June 2013

NAVY AND MARINE CORPS PUBLIC HEALTH CENTER
PREVENTION AND PROTECTION START HERE

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Who We Are

- **MISSION**: To provide expertise and leadership to improve the value of Navy health care and operational force readiness through clinical health analysis, epidemiologic, and evidence-based methods.

- **VISION**: The Health Analysis Department is ***the*** credible, relevant, and respected leader in health analysis within the Navy and Marine Corps and the broader Military Health S

"HA products drive more effective health care standards and practices to improve clinical outcomes and reduce costs."

What We Do

- Clinical Performance Measurement
- Epidemiology Study Design
- Consultation and Education
- DON CSP
- HORCE

We provide clinical performance measurement to improve patient outcomes and change clinical processes .

- HA
  including Clinical Performance Measurement, Epidemiology Study Design, Consultation and Education, the Department of the Navy Cancer Surveillance Program, and the Health Outcomes Research Centers of Excellence.

- HA analyzes patient care data such as disease screenings, disease management, injuries, causes of readmissions, and patient outcomes to drive effective and efficient health care standards.

- Our consultative support includes services delivered to customers such as providing input to guide Navy policy, conducting lectures on epidemiology, providing health measurement health informatics, drafting and advising scientific articles, and reviewing objectives for feasibility of implementation and evaluation.

Who We Serve

- Navy and Marine Corps Public Health Center (NMCPHC)
- Navy Bureau of Medicine and Surgery (BUMED)
  - M3
  - M5
  - M9
  - M81
- Navy Medicine Regional Commands
- Military Treatment Facilities (MTFs)
- Military Health System (MHS)
- Defense Health Agency (DHA)
- External Government Agencies such as the CDC
- Congress
- Graduate Medical Student/Residency
- Health Professionals including Clinicians, Administrators and Business staff

- Case samples include:
  - Wounded, Ill, and Injured Program Metrics
  - Case Management Workload Assessment
  - MTF Emergency Department High Utilizer Assessment
  - Traumatic Brain Injury Needs Assessment
  - Cancer Related Analysis
  - Family Mental Health Access to Care Needs Assessment
  - Clinical Risk Communications, ex. Myasthenia Gravis
  - Suicide Case Reviews
  - Tobacco Cessation Program Metrics

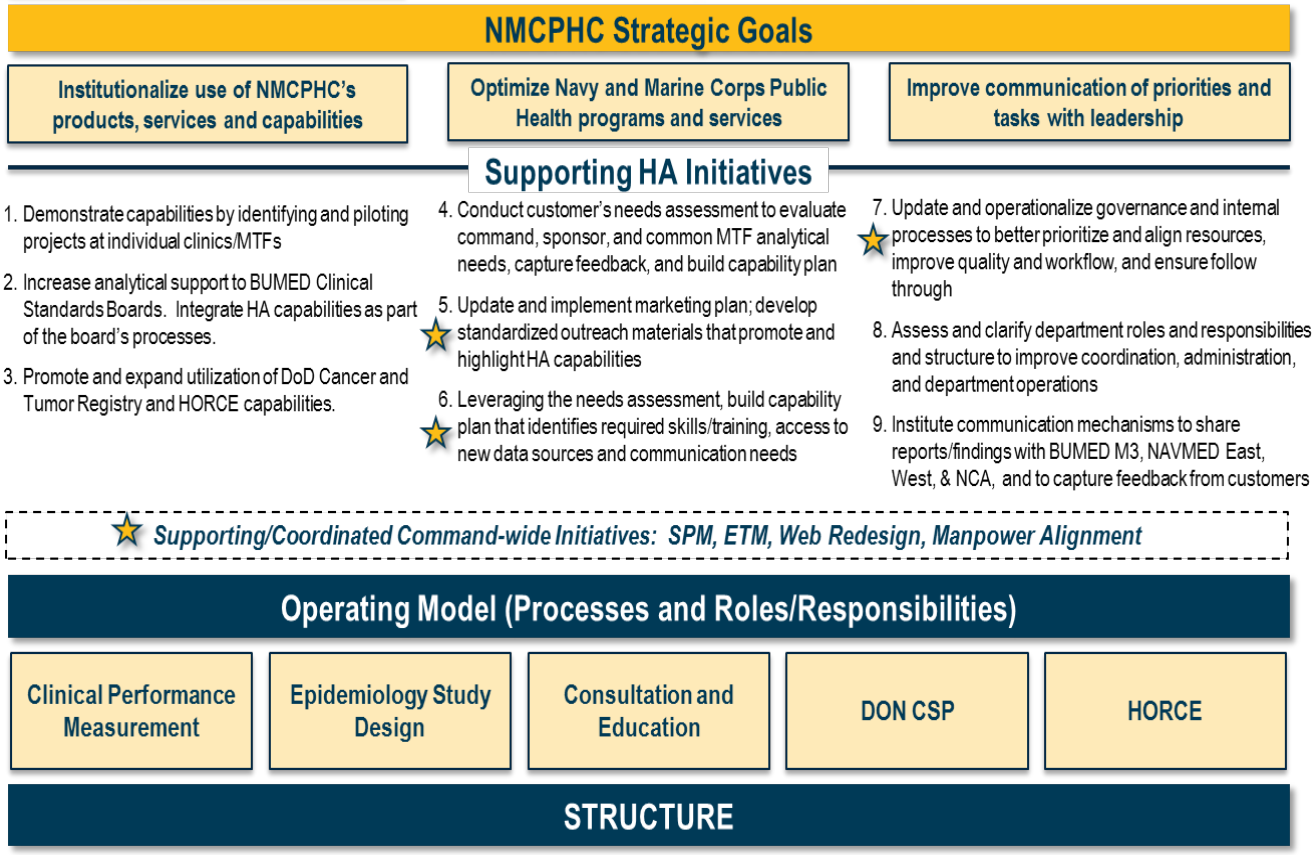
How We Do It

Credibility and Professional Expertise – Our team of analytic and epidemiologic experts analyzes patient care data such as disease screenings, disease management, injuries, causes of readmissions, and patient outcomes.
Relevance - We provide health analysis support to MTFs, individual providers, the DON Cancer Surveillance Program, and Health Outcomes Research Center of Excellence (HORCE), among others.
Readiness Impact/ROI - We use our analyses to assess compliance with clinical practice guidelines, to reduce variation, and to enhance quality and timeliness of care – all of which contribute to reduced operating costs.
Collaboration (Internal and External) - Our access to a broad range of clinical and demographic data gives us the ability to provide valuable insights on a variety of topics regarding specific populations, conditions, procedures and/or facilities.
Customer Engagement - Our consultative support includes services delivered to customers such as providing input to guide Navy policy, conducting lectures on epidemiology, providing health measurement, drafting and advising scientific articles, and reviewing objectives for feasibility of implementation and evaluation.
Accountability and Follow-Through - We gather and analyze MHS clinical data, interpret the data, document trends to share findings, resolve issues, and help shape policy, and then evaluate it's impact.
Process Improvement - We help Navy Medicine improve clinical outcomes and processes to ensure mission readiness, and to evaluate and identify programs and services across Navy Medicine that generate the greatest return on investment.

HA brings quality data analysis to Navy Medicine and beyond

ADDITIONAL SUPPORTING SLIDES

The HA Strategic Plan aligns directly to the NMCPHC Strategic Plan and overarching goals, which in turn support broader BUMED goals


NMCPHC Strategic Goals
Institutionalize use of NMCPHC's products, services and capabilities
Optimize Navy and Marine Corps Public Health programs and services
Improve communication of priorities and tasks with leadership
Supporting HA Initiatives
1. Demonstrate capabilities by identifying and piloting projects at individual clinics/MTFs
2. Increase analytical support to BUMED Clinical Standards Boards. Integrate HA capabilities as part of the board's processes.
3. Promote and expand utilization of DoD Cancer and Tumor Registry and HORCE capabilities.
4. Conduct customer's needs assessment to evaluate command, sponsor, and common MTF analytical needs, capture feedback, and build capability plan
5. Update and implement marketing plan; develop standardized outreach materials that promote and highlight HA capabilities
6. Leveraging the needs assessment, build capability plan that identifies required skills/training, access to new data sources and communication needs
7. Update and operationalize governance and internal processes to better prioritize and align resources, improve quality and workflow, and ensure follow through
8. Assess and clarify department roles and responsibilities and structure to improve coordination, administration, and department operations
9. Institute communication mechanisms to share reports/findings with BUMED M3, NAVMED East, West, & NCA, and to capture feedback from customers
Supporting/Coordinated Command-wide Initiatives: SPM, ETM, Web Redesign, Manpower Alignment
Operating Model (Processes and Roles/Responsibilities)
Clinical Performance Measurement
Epidemiology Study Design
Consultation and Education
DON CSP
HORCE
STRUCTURE

HA analyzes clinical processes and guidelines to promote population health and lower costs

Population Health Directorate

Mission: Support the full breadth of Navy Medicine's public health imperative through data-driven, evidence-based,
population-oriented analyses, practices and outreach programs; driving jointness through our collective value.

Epidemiology Data Center

Mission: Provide epidemiologic services in support of the Navy's disease and injury prevention programs.

Primary Audience: Operational Forces

Focus of Products/Services : Data analysis and interpretation to support Navy Medicine public health policy development and implementation, thereby assuring ***maximum force health protection and operational mission accomplishment***.

Focus on Readiness: Navy's center for deployment, disease and injury surveillance, providing routine and special reports upon request to Navy and Marine Corps customers.

- Early detection of mission-threatening outbreaks, pandemics, or CBRN attacks.
- Monitor fleet compliance with required preventive health measures.
- Produce and maintain database collection tools.
- Collect, analyze, and disseminate deployment-related health assessments.

Health Analysis

Mission: Provide expertise and leadership to improve the value of Navy health care and force readiness through clinical health analysis, epidemiologic, and evidence-based methods.

Primary Audience: MTFs, Clinics, WII Stakeholders

Focus of Products/Services: Analyze processes and guidelines to drive more effective healthcare provision ***to improve clinical outcomes and reduce costs***.

Focus on Readiness: Support Navy Medicine primary mission of providing fit and healthy force to the COCOMs.

- Effect healthcare quality and medical readiness at the most efficient cost.
- Enable reduced process variation to effect consistent outcomes.
- Support development, deployment of and compliance with evidence-based clinical practice guidelines.

Health Promotion and Wellness

Mission: Provide innovation and evidence-based health promotion and wellness programs and services that facilitate readiness and resilience, prevent illness and injury, hasten recovery, and promote lifelong healthy behaviors and lifestyles.

Primary Audience: HP Coordinators/Directors, MTFs, WII Stakeholders

Focus of Products/Services: Develop, implement, and maintain tailored health promotion and wellness campaigns ***targeting the most effective healthy lifestyle benefits.***

Focus on Readiness: Provide centralized health promotion support services to medical, shore-based, afloat, and reserve naval commands.

- Resources to deliver evidence-based health promotion of target populations, such as WII.
- Enterprise-wide resource for evidence-based health promotion programs that support service member resiliency, rehabilitation, and recovery.

Evidence-Based Analysis

Tools/Methods: Epidemiology, Biostatistics, Surveys, Surveillance
Processes: Data analysis & inferences drawn from MHS clinical data repositories
Measures: Incidence, Prevalence, Outcomes, Cost

HA activities align with the MHS Quadru

Experience of Care

Readiness

Population Health

Per Capita Cost

Activity	Quad Aim
Clinical Performance Management We study trends in clinical settings to include prescribing practices, referral patterns, and frequency of procedures. We analyze clinical performance measures to assess provider compliance with clinical practice guidelines, to reduce variation and to enhance quality and timeliness of care.	
Epidemiology Studies Design We work with our customers to identify best measures and methodologies, whether it is to determine the prevalence of disease, statistically significant changes in treatment patterns, changes in pre and post-survey results, or large volume, high cost, or high risk conditions.	
Consultation and Education We gather and analyze MHS clinical data interpret the data, document trends to share findings, resolve issues, and help shape policy. We share our expertise and clinical discoveries at various venues throughout the year including various pertinent conferences.	
DON Cancer Surveillance Program The DON CSP provides Navy Medicine with wide oversight of the quality of data entered into the Automated Central Tumor Registry (ACTUR) and monitors the success in meeting DON standards for cancer patient follow-up. Cancer surveillance and registry programs improve cancer control efforts, enhance the care of terminally ill patients, and provide valuable information for national cancer agencies that use registry data.	
HORCE Capability/Partnership Through HORCE, the DoD, academia and private industry partners perform DoD-approved health research that will improve force readiness, health outcomes, and patient safety; and/or lower healthcare costs across the DoD and throughout	